

Ceramite® Troughing

Superior Performance in Wear Resistant Applications

Bulletin 0149

Aluminum Industry

03/05

Ceramite® is a group of advanced castables exhibiting unique properties, such as extreme accuracy of casting, high abrasive wear resistance, mechanical strength and good resistance to high temperature, resistance to thermal shock conditions. Ceramite® is easy to mix, cast and shape in any size and is easy to work with in-situ, using the trowellable formulation.

We have included photos of the initial installation of a Ceramite® CSA Tapping Trough at a large aluminum extrusion facility. This was presented by Jim McKeefrey at our TMS meeting.

Jim has sent in follow up photos taken March 9, 2005. We include his report:

"I visited this plant yesterday. I was able to get a good look at the stationary launders we installed for the #8 and #9 melters. These troughs saw first metal on January 6, 2005.

Not only did the brick shop manager, rave about these troughs and how they looked, so did the people that had to patch the competitor's troughs. One of the maintenance people, said, "These troughs are worth the money!"

Attached are pictures of the #9 Launder (they were tapping on #8). The buildup you see on the trough is mostly bone ash. There is no visible sign of wear or cracking.

I will have to verify this number with the customer, but I would guess over 150,000,000 pounds of aluminum has gone over the troughs in the pictures. In addition, the customer adds Magnesium in this trough on every drop.

Also, there is no visible wear or cracking on the CSA Tap Block which was installed at the same time.

*I will update as I know more."
- Jim McKeefrey*

The aluminum continues to peel off the trough as if it were the first tap. We have said before and repeat again:

Ceramite® CSA troughing is outperforming any previous lining material.

Every aluminum trough or transfer piece should be lined with a Ceramite® shape.

None of our competition have these success stories, **PRESENT THEM EVERYDAY.**



1,200 lbs. Shape



Installation



Twin Taphole Furnace



No Material Wear

INDUSTRIES SERVED

- | | | | |
|-----------------|--------------------|------------------------|---------------------------|
| ☞ Refining | ☞ Non-Ferrous | ☞ Zinc | ☞ Precast Manufacturing |
| ☞ Rock Products | ☞ Die-Casting | ☞ Boiler Manufacturing | ☞ Mineral Processing |
| ☞ Chemical | ☞ Power Generation | ☞ Primary Aluminum | ☞ O.E.M. Furnace Builders |
| ☞ Steel | ☞ Incineration | ☞ Secondary Aluminum | ☞ Cremation |